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(54) **System and method for dispensing compressed gas**

(57) An apparatus and corresponding method for dispensing compressed gas to a receiving tank is provided which includes a compressed gas source, a valve for controlling the flow of the compressed gas between the compressed gas source and the receiving tank, an electronic controller, a conduit between the valve and the receiving tank, and a density sensor for sensing the density of the compressed gas inside the receiving tank. The density sensor may be a capacitive sensor, a vibrating

element sensor, or a nucleonic sensor. The electronic controller stores a predetermined set point density and the density sensor measures the density of the compressed gas in the receiving tank. The electronic controller periodically compares the density of the compressed gas with the predetermined set point density and controls the flow of compressed gas through the valve.

**EP 1 693 612 A3**



## EUROPEAN SEARCH REPORT

Application Number  
EP 06 00 2920

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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... &amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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